	Application No.	Applicant(s)
Notice of Allowability	10/583,283	NAKANO ET AL.
	Examiner	Art Unit
	Karuna P. Reddy	1713
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to <u>August 7, 2007</u> .		
2. The allowed claim(s) is/are <u>1-5</u> .		
 3.		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)	- -	
 Notice of References Cited (PŢO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. Notice of Informal F 6. Interview Summary 	• •
	Paper No./Mail Da	te
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/16/2006 	7. Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statemers.	ent of Reasons for Allowance
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		/Karuna Reddy/

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DETAILED ACTION

- This office action is in response to the amendment filed on August 7, 2007.
 Applicants have amended claims 1-5. Claims 1-5 are allowed.
- 2. The objection to claim 1 is most in view of the amendment.
- The rejections under U.S.C. § 102 are moot in view of the submission of a certified copy of English translation of the Japanese application (JAPAN 2003-421704).

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 1-5
are allowed over the closest reference cited below.

The present invention is drawn to a norbornane lactone (meth)acrylate represented by formula given below -

wherein R_1 represents an alkylene group having 2 to 4 carbon atoms, n denotes an integer of 1 to 3 and R_2 denoted a hydrogen atom or methyl

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group. A copolymer obtained by polymerizing the said norbornane lactone (meth)acrylate and a photoresist material comprising the copolymer.

Sato et al (JP 2002-351079) disclose a positive resist material comprising a copolymer of the following formula –

wherein the specific copolymer comprising a norbornane lactone methacrylate is exemplified by -

Sato et al (US 2003/077543 A1) disclose a positive resist composition comprising copolymers having a repeating unit of alicyclic lactone structure (paragraph 0027). The repeating unit is represented by general formula shown below -

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with a specific example of the following formula -

$$\begin{array}{c} CH_3 \\ CH_2 \\ C \\ C \\ C \\ CH_3 \end{array}$$

As of the date of this Notice of Allowability, the Examiner has not located or identified any reference that can be used singularly or in combination with another reference including '543 or JP '079 to render the present invention anticipated or obvious to one of ordinary skill in the art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karuna P. Reddy whose telephone number is (571) 272-6566.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Karuna P Reddy Examiner Art Unit 1713

/KR/

DAVID W. WU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700